

Hard Hose Traveling Gun System **COMPUTATIONAL WORKSHEET**

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 1
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes 2 # Interior Lanes 2 # Exterior Lanes 475 [feet] Length of pull(L1)
2 # Interior Lanes 2 # Exterior Lanes 475 [feet] Length of pull(L2)
2 # Interior Lanes 2 # Exterior Lanes 475 [feet] Length of pull(L3)
4. Wetted Diameter 283 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout ☐ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) ☐ Interior or ☒ Exterior (Lane/Hydrant)

.7 (a) Acres start end of pull from Table EE75 Column B

2.34 (b) Acres middle portion of pull (L1)

{Pull Length 475 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

3.0 **Total acres for Travel Lane Length (L1) (Sum: a + b + c)**

Travel Lane Length (L2) ☐ Interior or ☐ Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) ☐ Interior or ☐ Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

3.0 (a) Acres per Travel Lane Length (L1) X 2 # Lanes = 6.0 Acres

 (b) Acres per Travel Lane Length (L2) X # Lanes = Acres

 (c) Acres per Travel Lane Length (L3) X # Lanes = Acres

6.0 **Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)**

Wettable Acre Computational Worksheet Completed by Carl Henry Dutz Jr. Date: 5/1/03

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 7077-166 Field Number (Identification) 2
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes # Interior Lanes # Exterior Lanes 365 [feet] Length of pull(L1)
 # Interior Lanes 1 # Exterior Lanes 225 [feet] Length of pull(L2)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L3)
4. Wetted Diameter 288 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout ☐ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) Interior or ☒ Exterior (Lane/Hydrant)

17 (a) Acres start end of pull from Table EE75 Column B

1.8 (b) Acres middle portion of pull (L1)

{Pull Length 365 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

2.5 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) Interior or ☒ Exterior (Lane/Hydrant)

17 (a) Acres start end of pull from Table EE75 Column B

1.8 (b) Acres middle portion of pull (L1)

{Pull Length 162 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

1.5 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) Interior or Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

2.5 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 2.5 Acres

1.6 (b) Acres per Travel Lane Length (L2) X # Lanes = 1.5 Acres

 (c) Acres per Travel Lane Length (L3) X # Lanes = Acres

4.0 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Wettable Acre Computational Worksheet Completed by: Carl Henry Outley

Date: 5/1/03

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 4
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes 2 # Interior Lanes 2 # Exterior Lanes 840 [feet] Length of pull(L1)
Interior Lanes 7 # Exterior Lanes 620 [feet] Length of pull(L2)
Interior Lanes # Exterior Lanes [feet] Length of pull(L3)
4. Wetted Diameter 282 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout ☐ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) ☐ Interior or ☒ Exterior (Lane/Hydrant)

.75 (a) Acres start end of pull from Table EE75 Column B

4.16 (b) Acres middle portion of pull (L1)

{Pull Length 840 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

4.86 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) ☒ Interior or ☐ Exterior (Lane/Hydrant)

.58 (a) Acres start end of pull from Table E265 Column B

3.16 (b) Acres middle portion of pull (L1)

{Pull Length 840 [feet] X Wetted Width 187 [feet]} / 43,560

0 (c) Acres stop end of pull from Table E165 Column C

4.19 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) ☐ Interior or ☒ Exterior (Lane/Hydrant)

.70 (a) Acres start end of pull from Table EE75 Column B

3.07 (b) Acres middle portion of pull (L1)

{Pull Length 620 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop-end of pull from Table EE75 Column C

3.77 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

4.86 (a) Acres per Travel Lane Length (L1) X 2 # Lanes = 9.72 Acres

4.19 (b) Acres per Travel Lane Length (L2) X 2 # Lanes = 8.38 Acres

3.77 (c) Acres per Travel Lane Length (L3) X 1 # Lanes = 3.77 Acres

21.87 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Wettable Acre Computational Worksheet Completed by Carl Rencz, Ditch

Date: 5/1/03

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 5
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes 1 # Interior Lanes 1 # Exterior Lanes 700 [feet] Length of pull(L1)
1 # Interior Lanes 1 # Exterior Lanes 240 [feet] Length of pull(L2)
1 # Interior Lanes 1 # Exterior Lanes 840 [feet] Length of pull(L3)
4. Wetted Diameter 283 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout ☐ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) ☐ Interior or ☒ Exterior (Lane/Hydrant)

17 (a) Acres start end of pull from Table EE75 Column 6

3.47 (b) Acres middle portion of pull (L1)

{Pull Length 700 [feet] X Wetted Width 214 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

4.17 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) ☒ Interior or ☐ Exterior (Lane/Hydrant)

53 (a) Acres start end of pull from Table ET45 Column 6

3.4 (b) Acres middle portion of pull (L1)

{Pull Length 840 [feet] X Wetted Width 137 [feet]} / 43,560

0 (c) Acres stop end of pull from Table ET45 Column C

4.13 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) ☐ Interior or ☒ Exterior (Lane/Hydrant)

17 (a) Acres start end of pull from Table EE75 Column 8

4.13 (b) Acres middle portion of pull (L1)

{Pull Length 840 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column 8

4.13 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

4.17 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 4.17 Acres

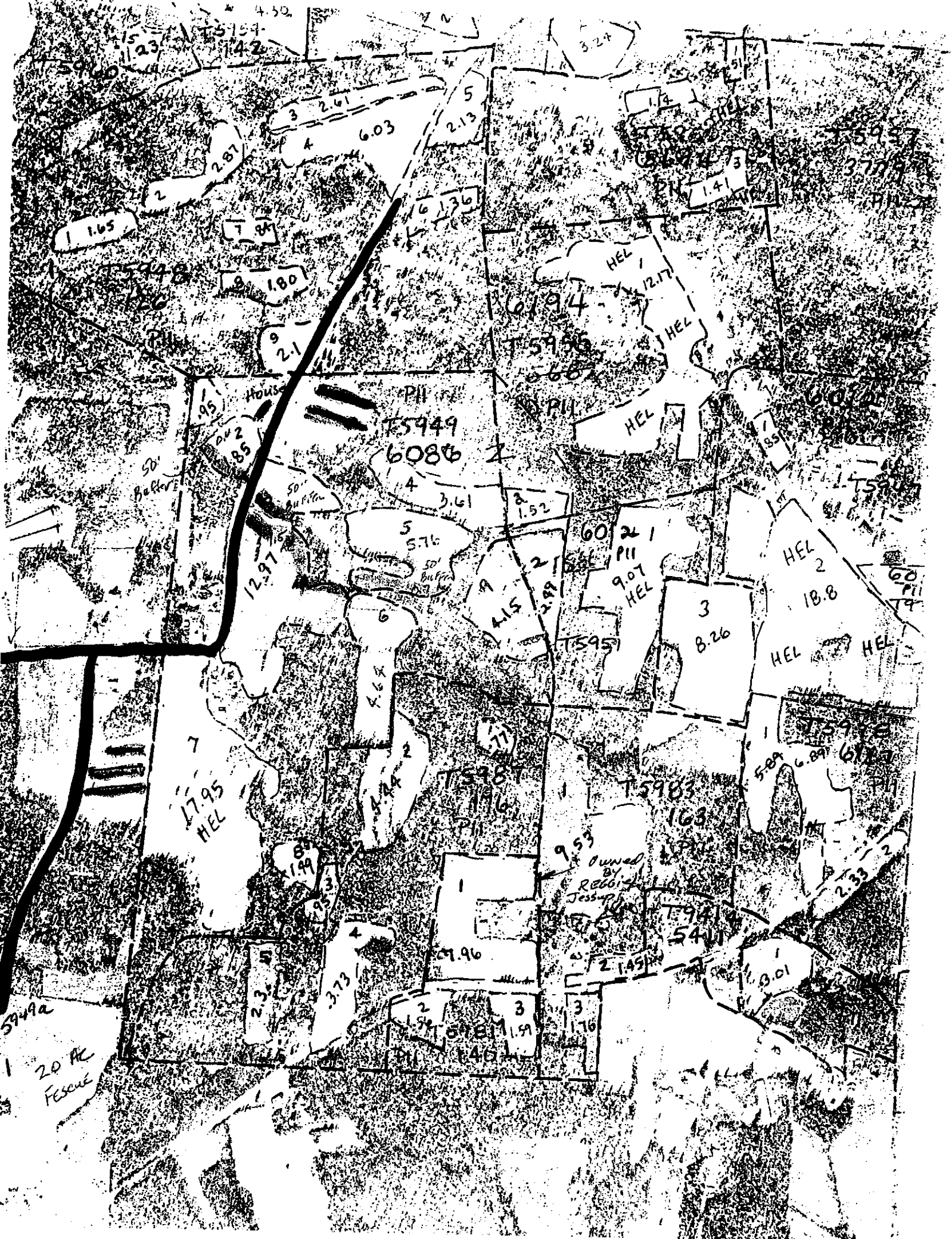
4.13 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 4.13 Acres

4.13 (c) Acres per Travel Lane Length (L3) X 1 # Lanes = 4.13 Acres

8.23 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Wettable Acre Computational Worksheet Completed by: Paul Henry Date: 5/1/03

Date: 5/1/03



5
of
Farms

967
106

4 30.1

5 16.5

55

543
T167
B-10

3 2.10

2 2.3

559
T168
B-10

614
T480
B-10

1 2.05

1 20.53

County Road 1145

1 1.60

2 7.39

1 2.40

3 3.18

2 2.23

453
T172
B-10

648
T169
B-10

3307
T482
B-10

104
T4
B-11

Map Unit Legend

Chatham County, North Carolina (NC037)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CaB	Callison-Lignum complex, 2 to 6 percent slopes	7.4	8.7%
CbC	Callison-Misenheimer complex, 6 to 10 percent slopes	1.1	1.2%
NaB	Nanford-Badin complex, 2 to 6 percent slopes	4.9	5.8%
Subtotals for Soil Survey Area		13.3	15.7%
Totals for Area of Interest		84.9	100.0%

Randolph County, North Carolina (NC151)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BaC	Badin-Tarrus complex, 8 to 15 percent slopes	3.6	4.2%
CaB	Callison-Lignum complex, 2 to 6 percent slopes	51.9	61.2%
CbC	Callison-Misenheimer complex, 6 to 10 percent slopes	14.0	16.5%
WtB	Wynott-Enon complex, 2 to 8 percent slopes	2.0	2.3%
Subtotals for Soil Survey Area		71.5	84.3%
Totals for Area of Interest		84.9	100.0%

Soil Map—Chatham County, North Carolina, and Randolph County, North Carolina



MAP LEGEND

MAP INFORMATION

Area of Interest (AOI)
Area of Interest (AOI)

Soils

Soil Map Units

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

Spoil Area

Stony Spot

Very Stony Spot

Wet Spot

Other

Special Line Features

Gully

Short Steep Slope

Other

Political Features

Cities

Water Features

Oceans

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

Map Scale: 1:7,620 if printed on A size (8.5" x 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 17N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Randolph County, North Carolina
Survey Area Data: Version 16, Jan 7, 2008

Date(s) aerial images were photographed: 6/29/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Randolph County, North Carolina (NC151)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BaB	Badin-Tarrus complex, 2 to 8 percent slopes	188.4	27.3%
BaC	Badin-Tarrus complex, 8 to 15 percent slopes	81.4	11.8%
BaD	Badin-Tarrus complex, 15 to 25 percent slopes	36.2	5.3%
BtC2	Badin-Tarrus complex, 8 to 15 percent slopes, moderately eroded	42.4	6.1%
CaB	Callison-Lignum complex, 2 to 6 percent slopes	21.5	3.1%
CbC	Callison-Misenheimer complex, 6 to 10 percent slopes	100.7	14.6%
GoC	Goldston very channery silt loam, 4 to 15 percent slopes	58.3	8.5%
W	Water	1.4	0.2%
WtB	Wynott-Enon complex, 2 to 8 percent slopes	71.7	10.4%
WtC	Wynott-Enon complex, 8 to 15 percent slopes	86.9	12.6%
Totals for Area of Interest		689.0	100.0%

Soil Map—Randolph County, North Carolina
(Tract 5949,5949a,5981)



Conservation Plan Map

Date: 2/26/2009

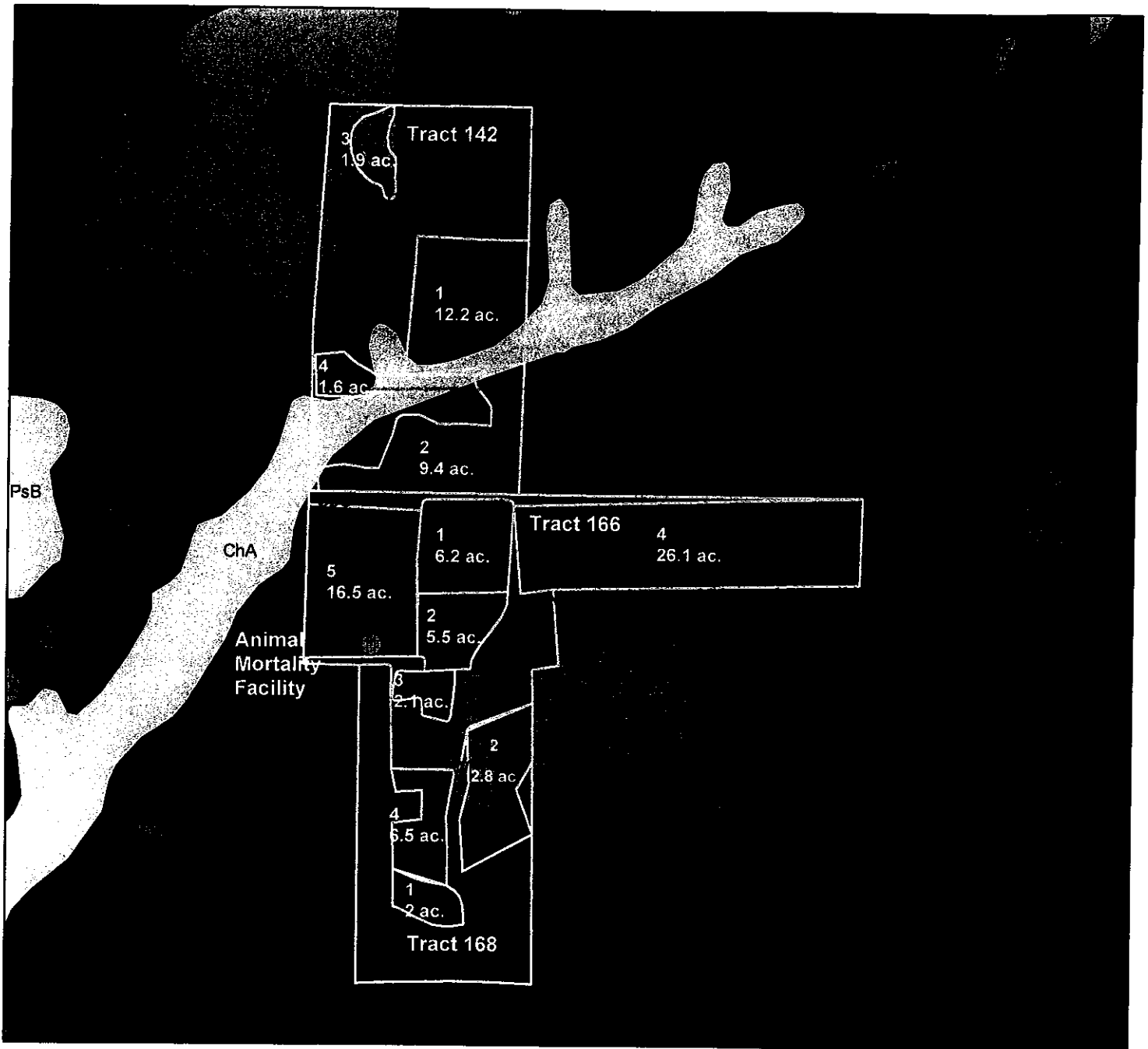
Customer(s): THURMAN JESSUP

District: CHATHAM SOIL & WATER CONSERVATION DISTRICT

Field Office: PITTSBORO SERVICE CENTER

Agency: USDA Service Center

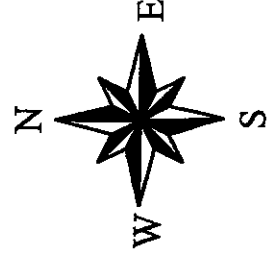
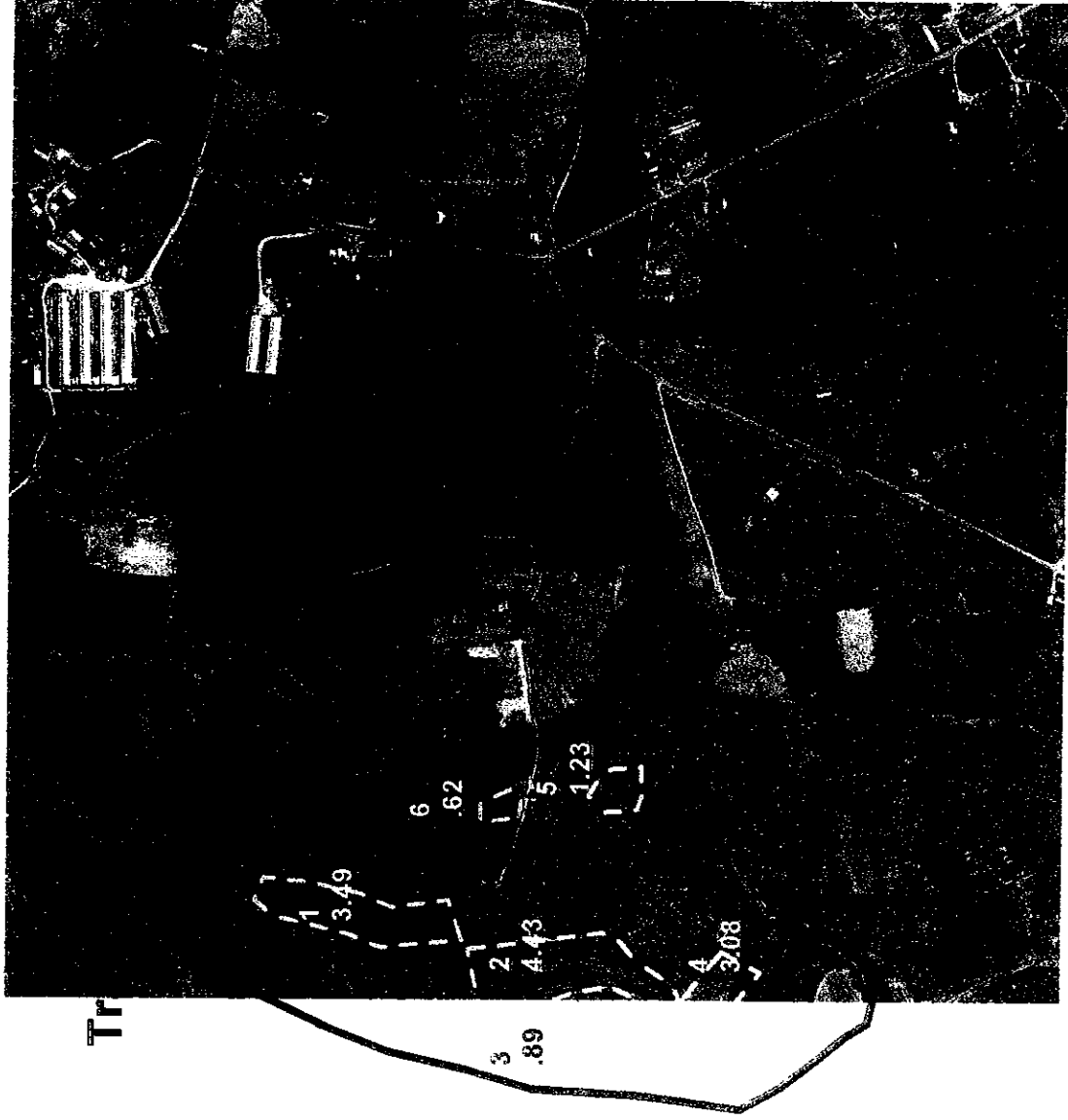
Assisted By: Carl Outz



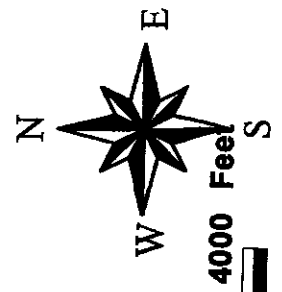
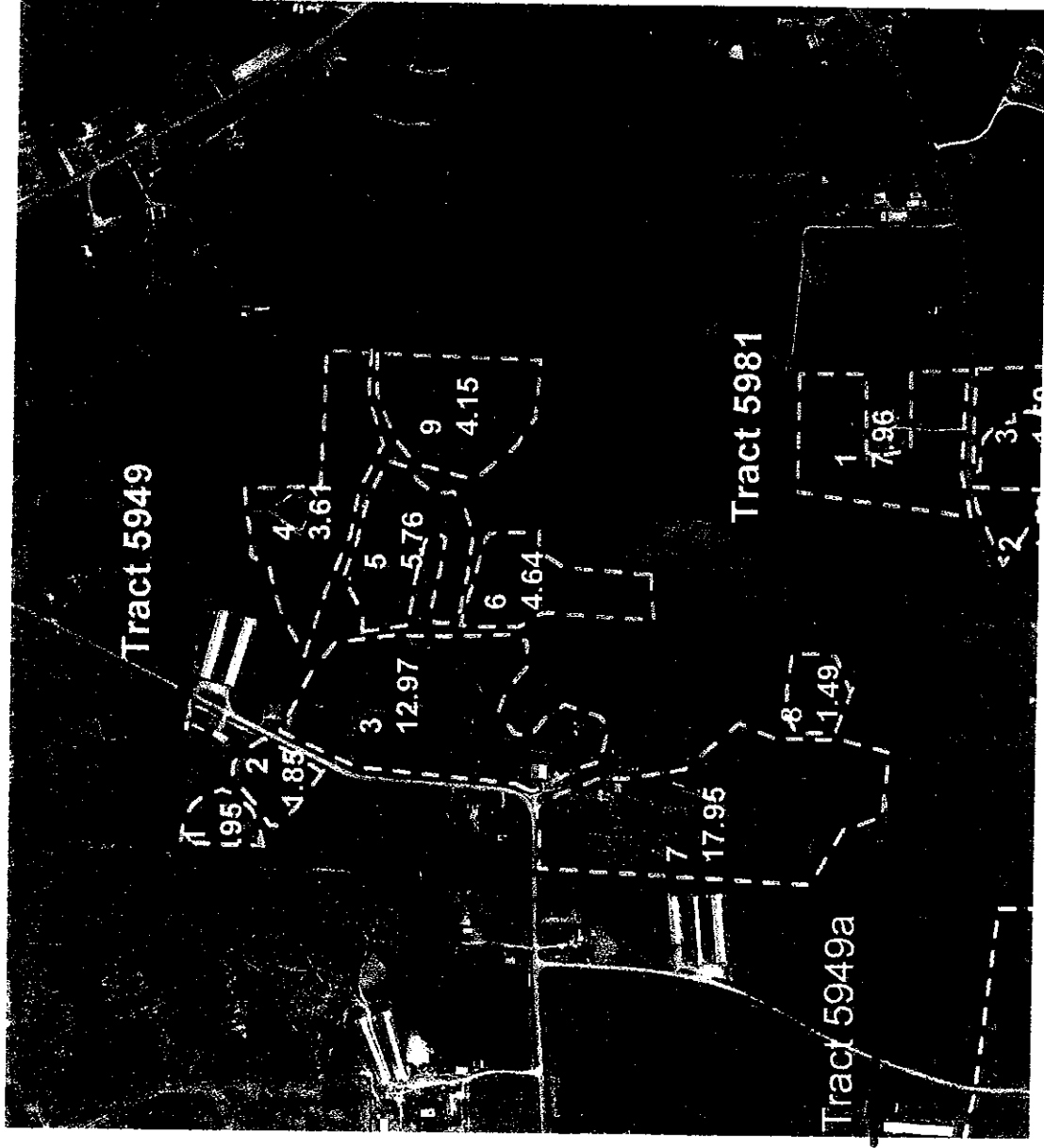
450 0 450 900 1,350 1,800 Feet



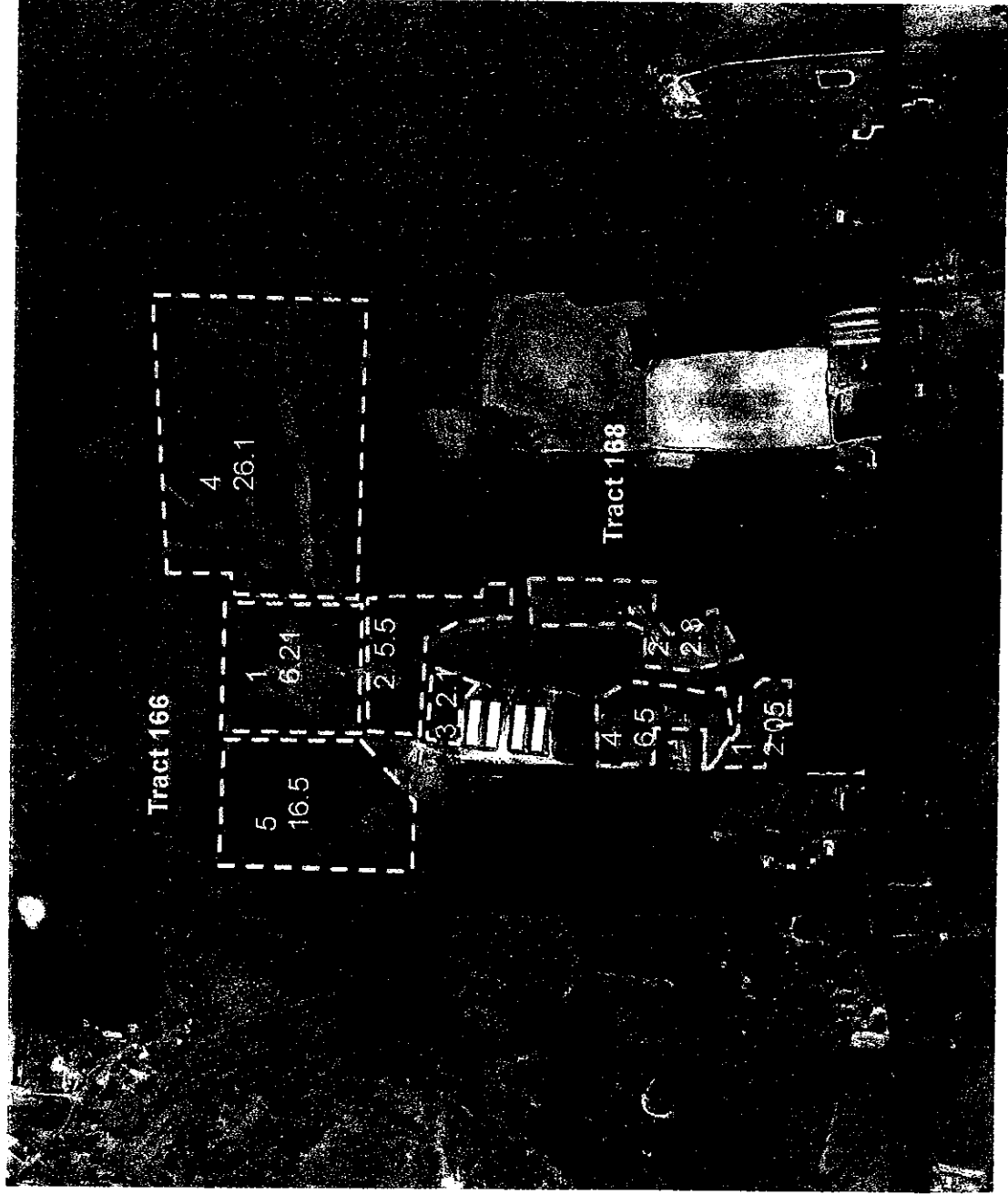
Thurman Jessup - Owner Chatham County, North Carolina Conservation Plan Map



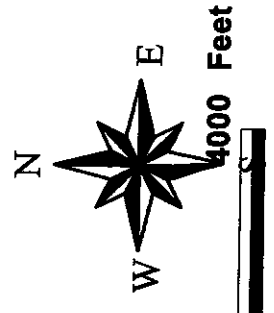
Thurman Jessup - Owner Chatham County, North Carolina Conservation Plan Map



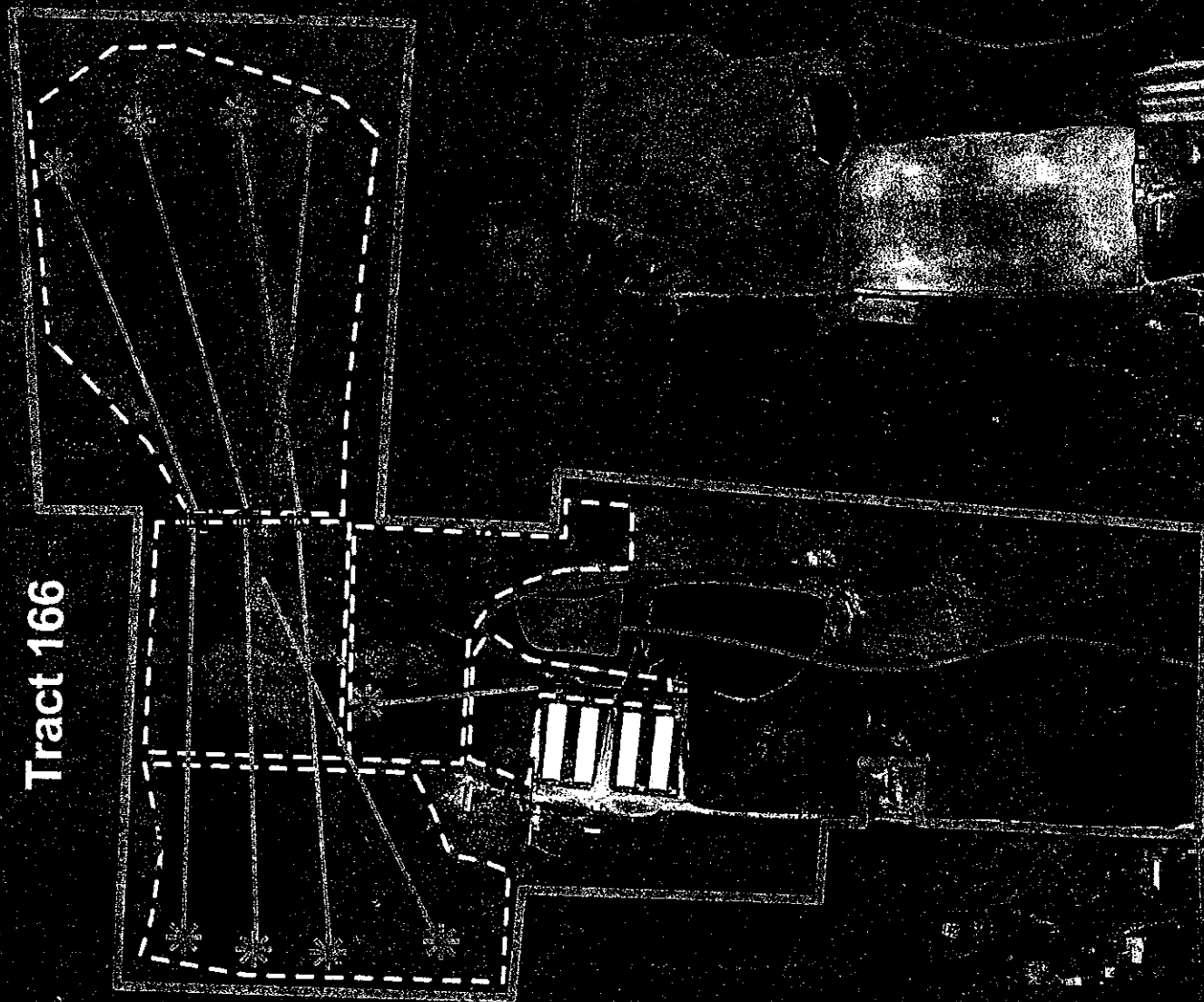
Thurman Jessup - Owner Chatham County , North Carolina Conservation Plan Map



- Roads_shp.shp
- Hydro_poly.shp
- Stream/River
- Lake/Pond
- Hydro_line.shp
- Stream/River
- Intermittent Stream



Tract 166



Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 967 T-666 Field Number (Identification) 2
2. Irrigation System Designation Existing Irrigation System ☒ New/ Expanded Irrigation System
3. Number of Travel Lanes # Interior Lanes # Exterior Lanes [feet] Length of pull(L1)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L2)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L3)
4. Wetted Diameter 288 [feet] From field data sheet
5. Spacing 170 Hydrant Spacing [feet] 60 [as percent of wetted diameter]
6. Hydrant Layout Multiple Hydrants ☒ Single Hydrant Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) _____ Interior or ~~250~~ Exterior (Lane/Hydrant)

• 22 (a) Acres start end of pull from Table EE60 Column B

97 (b) Acres middle portion of pull (L1)

{Pull Length 250 [feet] X Wetted Width 172 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 6660 Column 6

 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) Interior or Exterior (Lane/Hydrant)

_____ (a) Acres start end of pull from Table Column

_____ (b) Acres middle portion of pull (L1)

{Pull Length_____ [feet] X Wetted Width_____ [feet]} / 43,560

_____ (c) Acres stop end of pull from Table _____ Column _____

 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) _____ Interior or _____ Exterior (Lane/Hydrant)

_____ (a) Acres start end of pull from Table - Column

_____ (b) Acres middle portion of pull (L1)

{Pull Length_____ [feet] X Wetted Width_____ [feet]} / 43,560

_____ (c) Acres stop end of pull from Table _____ Column _____

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

0.1 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 1.1 Acres

_____ (b) Acres per Travel Lane Length (L2) X _____ # Lanes = _____ Acres

_____ (c) Acres per Travel Lane Length (L3) X _____ # Lanes = _____ Acres

1.1 **Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)**

Wettable Acre Computational Worksheet Completed by: Carl Henry, Outy, Jr.

Date: 5/17/05

CAWMP HARD-HOSE TRAVELER FIELD DATA SHEET *

1. Make and model number reel 2100-10 3550
2. Hose length and hose inside diameter (ID) 1000' 3/4"
3. Gun make and model number Nelson Irrigation Model 220
4. Gun nozzle size 1/2 inch, ☒ ring orifice, ☐ taper bore orifice.
(May need to measure nozzle diameter.)
5. Hydrant spacing feet. Indicate whether ☐ uniform, ☐ random.
Number of exterior hydrants 5. Number of interior hydrants .
6. Operating pressure at hose reel 100 psi.
 observed at working gauge, ☒ provided by owner.
7. Gun wetted diameter 233 feet.
228 measured, ☒ based on gun chart.
8. Gun pressure 100 psi.
 observed at working gauge, based on calculations (show calculations),
☒ determined from gun charts.
- **9. Supply line size 6 inch (from pump to last hydrant).
- **10. Supply line length 1200 feet (maximum pumping distance).
- **11. Supply line type ☒ PVC, ☐ aluminum.
- **12. Pump make and model number Barkley Pump Model 82500
- **13. Pump capacity, 125 gpm.
- **14. Engine make and model number John Deere ED 4045, or
- **15. Electric motor horsepower and rpm hp rpm

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Also indicate the normal arc angle of the gun for each pull through a field. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

Thurman Jessup
Signature of Owner or Facility Representative
Thurman Jessup
Printed Name of Owner or Facility Representative

and/or

Carl Henry Outz Jr.
Signature of Technical Specialist
Carl Henry Outz Jr.
Printed name of Technical Specialist

Date 5/17/05

Date 5/17/05

*** Only the person or persons collecting the data should sign the data sheet.

Electrical conductivity (soluble salts) and pH values prove useful when blending composted wastes into potting soils. An agricultural lime equivalent is calculated for materials that may have lime value and indicates the amount of the waste on a wet basis that must be applied to have the same effect as one ton of agricultural lime.

The report's recommendation section provides general information on the waste product, including attention to unusual qualities and quantities of heavy metals and other nutrients that must be considered to dispose of the material in an environmentally sound manner. For diagnostic samples, site-specific recommendations are provided based on background information.

Monitoring & Record Keeping

Growers who use wastes as fertilizer benefit from maintaining precise records of their activities, including waste analysis reports, application rates/dates and crop sites. Records of annual or biennial soil tests provide evidence that pH has been maintained properly and that nutrient requirements are in line with applications. Plant analysis reports can provide the evidence needed to justify increases in application rates to maximize production. Yield and quality records complete the picture of production trends.

The final link in the chain is to sample both surface and ground water at least annually to provide evidence that the waste application program is not having a negative impact on the environment. Over time, records of analytical results may prove to be invaluable indicators of responsible waste management and environmental stewardship.

For additional information, contact

NCDA&CS Agronomic Division, Plant/Waste/Solution Section
Mailing address: 1040 Mail Service Center, Raleigh, NC 27699-1040
Physical address: 4300 Reedy Creek Rd., Raleigh, NC 27607-6465
Phone: (919) 733-2655

or visit our Web site

www.ncagr.com/agronomi/

Mission Statement Accessibility Statement Disclaimer **Last Updated August 23, 2005**
Privacy Statement

Telephone Numbers for Speech and Hearing Impaired
TTY: 1-800-735-2962 Voice: 1-877-735-8200

2. The facility was operated in such a way that there was no direct runoff of waste from the facility (including the houses, lagoons/storage ponds and the application sites) during the past calendar year. ☐ Yes ☐ No
3. There was no discharge of waste to surface water from this facility during the past calendar year. ☐ Yes ☐ No
4. There was no freeboard violation in any lagoons or storage ponds at this facility during the past calendar year. ☐ Yes ☐ No
5. There was no PAN application to any fields or crops at this facility greater than the levels specified in this facility's CAWMP during the past calendar year. ☐ Yes ☐ No
6. All land application equipment was calibrated at least once during the past calendar year. ☐ Yes ☐ No
7. Sludge accumulation in all lagoons did not exceed the volume for which the lagoon was designed or reduce the lagoon's minimum treatment volume to less than the volume for which the lagoon was designed. ☐ Yes ☐ No
8. A copy of the Annual Sludge Survey Form for this facility is attached to this Certification. ☐
Yes ☐ No
9. Annual soils analysis were performed on each field receiving animal waste during the past calendar year. ☐ Yes ☐ No
10. Soil pH was maintained as specified in the permit during the past calendar Year? ☐ Yes ☐ No
11. All required monitoring and reporting was performed in accordance with the facility's permit during the past calendar year. ☐ Yes ☐ No
12. All operations and maintenance requirements in the permit were complied with during the past calendar year or, in the case of a deviation, prior authorization was received from the Division of Water Quality. ☐ Yes ☐ No
13. Crops as specified in the CAWMP were maintained during the past calendar year on all sites receiving animal waste and the crops grown were removed in accordance with the facility's permit. ☐ Yes ☐ No
14. All buffer requirements as specified on the permit and the CAWMP for this facility were maintained during each application of animal waste during the past calendar year. ☐ Yes ☐ No

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

Permittee Name and Title (type or print)

III. Certification of Installation

A) Collection, Storage, Treatment Installation

New, expanded or retrofitted facility (SI)

Animal waste storage and treatment structures, such as but not limited to lagoons and ponds, have been installed in accordance with the approved plan to meet or exceed the minimum standards and specifications.

For existing facilities without retrofits, no certification is necessary.

Name of Technical Specialist (Please Print): _____

Affiliation: _____ Date Work Completed: _____

Address (Agency): _____ Phone No.: _____

Signature: _____ Date: _____

B) Land Application Site (WUP)

Check the appropriate box

- ☒ The cropping system is in place on all land as specified in the animal waste management plan.
- ☐ **Conditional Approval:** all required land as specified in the plan is cleared for planting; the cropping system as specified in the waste utilization plan has not been established and the owner has committed to establish the vegetation as specified in the plan by _____ (month/day/year); the proposed cover crop is appropriate for compliance with the wasteutilization plan.
- ☐ Also check this box if appropriate
if the cropping system as specified in the plan can not be established on newly cleared land within 30 days of this certification, the owner has committed to establish an interim crop for erosion control;

Name of Technical Specialist (Please Print): _____

Affiliation: _____ Date Work Completed: _____

Address (Agency): _____ Phone No.: _____

Signature: W.D. Woods, Jr. Date: 9-30-97

This following signature block is only to be used when the box for conditional approval in III. B above has been checked.

I (we) certify that I (we) have committed to establish the cropping system as specified in my (our) waste utilization plan, and if appropriate to establish the interim crop for erosion control, and will submit to DEM a verification of completion from a Technical Specialist within 15 calendar days following the date specified in the conditional certification. I (we) realize that failure to submit this verification is a violation of the waste management plan and will subject me (us) to an enforcement action from DEM.

Name of Land Owner: _____

Signature: _____ Date: _____

Name of Manager (if different from owner): _____

Signature: _____ Date: _____

Technical Specialist Certification (T-554)

I. As a technical specialist designated by the North Carolina Soil and Water Conservation Commission pursuant to 15A NCAC 6F .0005, I certify that the animal waste management system for the farm named above has an animal waste management plan that meets or exceeds standards and specification of the Division of Environmental Management (DEM) as specified in 15A NCAC 2H.0217 and the USDA-Natural Resources Conservation Service (NRCS) and/or the North Carolina Soil and Water Conservation Commission pursuant to 15A NCAC 2H.0217 and 15A NCAC 6F .0001-.0005. The following elements are included in the plan as applicable. While each category designates a technical specialist who may sign each certification (SD, SI, WUP, RC, I), the technical specialist should only certify parts for which they are technically competent.

II. Certification of Design

A) Collection, Storage, Treatment System

Check the appropriate box

- ☒ Existing facility without retrofit (SD or WUP)

Storage volume is adequate for operation capacity; storage capability consistent with waste utilization requirements.

- ☐ New, expanded or retrofitted facility (SD)

Animal waste storage and treatment structures, such as but not limited to collection systems, lagoons and ponds, have been designed to meet or exceed the minimum standards and specifications.

Name of Technical Specialist (Please Print): W.D. Woods, Jr

Affiliation: NRCS

Address(Agency): P.O. Box 309 Pittsboro 27312 Phone No.: 542-8240

Signature: W.D. Woods, Jr. Date: 9-30-97

B) Land Application Site (WUP)

The plan provides for minimum separations (buffers); adequate amount of land for waste utilization; chosen crop is suitable for waste management; hydraulic and nutrient loading rates.

Name of Technical Specialist (Please Print): see ABOVE

Affiliation: see ABOVE

Address(Agency): see ABOVE Phone No.: see ABOVE

Signature: W.D. Woods, Jr. Date: 9-30-97

C) Runoff Controls from Exterior Lots

Check the appropriate box

- ☒ Facility without exterior lots (SD or WUP or RC)

This facility does not contain any exterior lots.

- ☐ Facility with exterior lots (RC)

Methods to minimize the run off of pollutants from lounging and heavy use areas have been designed in accordance with technical standards developed by NRCS.

Name of Technical Specialist (Please Print): see ABOVE

Affiliation: see ABOVE

Address(Agency): see ABOVE Phone No.: see ABOVE

Signature: W.D. Woods, Jr. Date: 9-30-97

Wettable Acres Determination Certification

Name of Facility: Thurman Jessup Farm Facility Number: 19-43
Owner(s) Name: Thurman Jessup Phone No: 336-879-5623
Mailing Address: 6913 Brush Creek Farm Road
Bennett, NC 27208

By signing this form, the facility owner and Technical Specialist acknowledge the completion of the Wettable Acres Determination. All necessary Wettable Acre Determination Field Data Sheets and calculations were completed to conduct a Wettable Acre Determination. The facility's Waste Utilization Plan has been amended as necessary to reflect actual wetted acreage. A copy of all worksheets, calculations, and other Wettable Acres Determination documents, along with the applicable Waste Utilization Plan and Wettable Acre Determination Certification will be filed with the local Soil and Water Conservation District. A copy will also be kept on site with the Certified Animal Waste Management Plan. Any future modifications must be approved by a technical specialist and filed with the Soil and Water Conservation District prior to implementation. If any modifications to the existing irrigation system or any new irrigation equipment was required to adequately address the waste management needs of this facility, an Irrigation Specialist or Professional Engineer has certified the design and installation below.

Owner Name: Thurman Jessup
Owner Signature: Thurman Jessup Date: 7/18/02
Technical Specialist Name: Carl Henry Outz Jr.
Technical Specialist Signature: Carl Henry Outz Jr. Date: 7/18/02

If assisted by an Irrigation Specialist or Professional Engineer please read and sign below:

Animal waste application equipment has been designed or modified to apply waste as necessary to accommodate the waste management plan and according to NRCS Standards. Animal waste application equipment has been installed according to NRCS Standards and is ready for use.

Irrigation Specialist/PE Name: _____
Irrigation Specialist/PE Signature: _____ Date: _____

* Fields 4 & 5 tract 166

have had additional
acreage cleared in these
fields. Wettable acres
determination completed in these
fields. CWO 7/18/02
WADC - 7/99

Submit this form to:

Attn: Sonya Avant
Non-Discharge Compliance Unit
Division of Water Quality
1617 Mail Service Center
Raleigh, NC 27699-1617

5. Contact the contractor of your choice to begin repair of problem to minimize off-site damage.

a. Contractors Name: _____
b. Contractors Address: _____
c. Contractors Phone: _____

6. Contact the technical specialist who certified the lagoon (NRCS, Consulting Engineer, etc.

a. Name: Mike Studivant
b. Phone: 919-542-2244 Ext 3

7. Implement procedures as advised by DWQ and technical assistance agencies to rectify the damage, repair the system, and reassess the waste management plan to keep problems with release of wastes from happening again.

NOTE: THESE ARE THE RECOMMENDED REALISTIC YIELD NITROGEN APPLICATION RATES FOR THE SOIL TYPES LISTED ON THE PRECEEDING PAGES. WHEN A CROP IS PLANTED THAT VARIES FROM THE WASTE MANAGEMENT PLAN, THE NITROGEN APPLICATION RATES FROM ABOVE MUST BE USED IN ORDER TO COMPLY WITH .0200 REGULATIONS. IF HAYLAND IS USED FOR GRAZING, THE HAYLAND APPLICATION RATE MUST BE REDUCED BY 25 PERCENT. IF YOU HAVE ANY QUESTIONS PLEASE CALL OUR OFFICE, THE PHONE NUMBER IS 545-8353, OR 542-2244 EXT 3.